

Product Information Packet

November 8, 2016

Data shown is for the current revision model #. Ensure your nameplate model # matches.

Model Number:	5KS284STE205A
Catalog Number:	M7732
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG210
Outline Drawing:	358B6273AA

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS284STE205A	Estimated Weight:	450 Lbs
Outline Drawing:	358B6273AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG210	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	28AD1017A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	284T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	93.6 %
Output Power:	25HP 18.5KW	Guaranteed Efficiency:	92.4
RPM:	1775	3/4 Load Efficiency:	94.3
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	6.5
Amps - FL:	59.6/29.8	Power Factor:	84
Service Factor:	1.15	Bearing - DE:	6310ZZ
Alt Service Factor:	--	Bearing - ODE:	6210ZZ

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

USABLE AT 200V @ 25 HP, 68 AMPS @ 1.0 SF

LRA: 338.8/169.4

50HZ DATA: 20 HP,200/400V,63/31.5 AMPS @ 1.15 SF

50HZ DATA: 25 HP,200/400V, 68/34 AMPS @ 1.00 SF

GREASE TYPE: SHELL ALVANIA R3 LITHIUM GREASE

Additional Information:

CONDUIT BOX MATERIAL: CAST IRON

SUITABLE FOR USE IN CLASS I DIVISION 2 LOCATIONS

CLASS I DIVISION 2 GROUPS A,B,C,D T3C

CLASS I ZONE 2 IIC T3C



Performance Characteristics

1st Winding 1st Connection

Design: 28AD1017A

Marks:

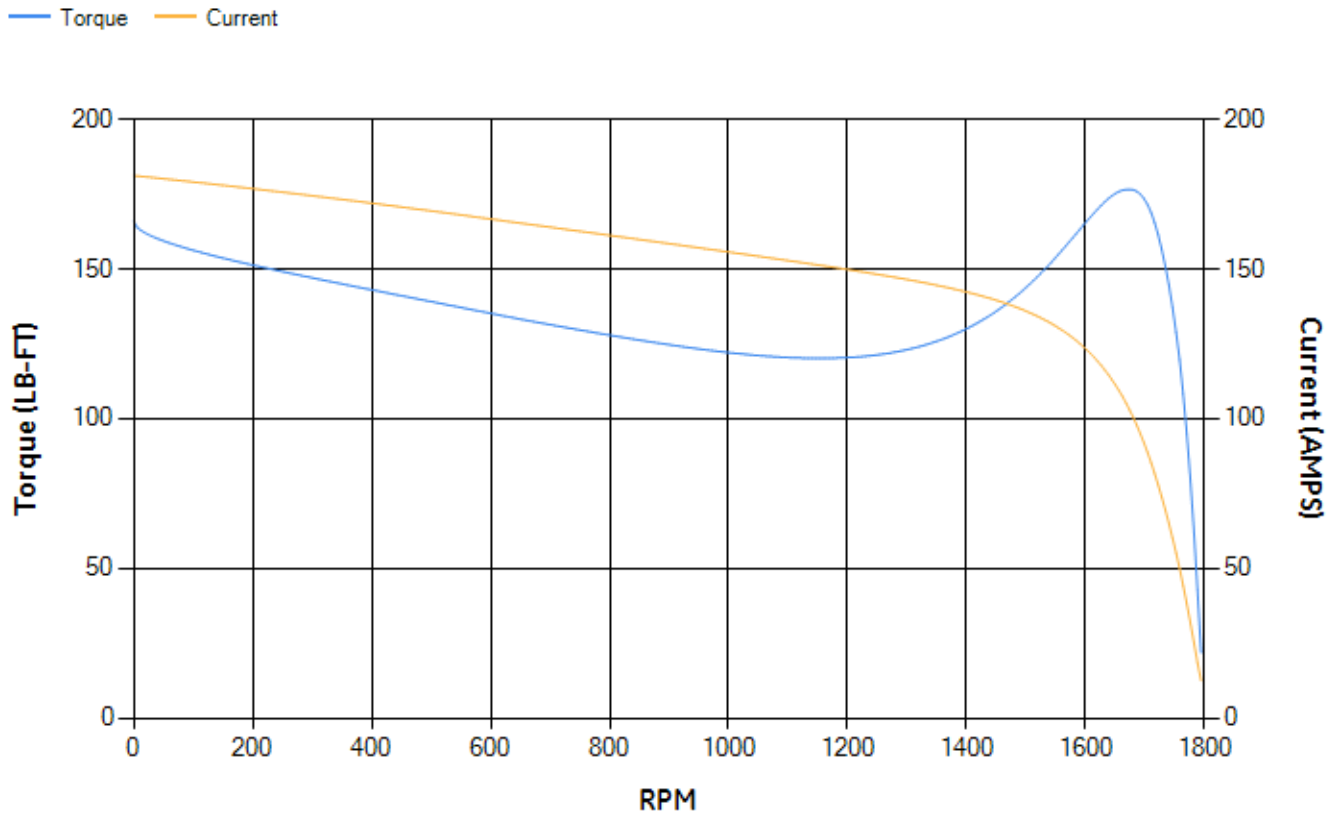
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.03	93.41	94.08	94.32	94.05	91.37	0.00
% PF	84.45	84.56	84.24	81.84	74.78	54.92	5.21
AMPS	37.23	34.07	29.53	22.73	16.63	11.66	9.05

TORQ(FL)#FT	74.04	TORQ(LR)%FL	224.18	TORQ(BD)%FL	237.76
AMPS(LR)	181.21	PF AT START	0.39		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 926 Lb-Ft Sq (38.98 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 47 seconds. Safe stall time at 100% voltage is 81 seconds cold, 60 seconds hot. Rotor inertia is 4.52 Lb-Ft Sq (0.19 Kg-meter Sq).

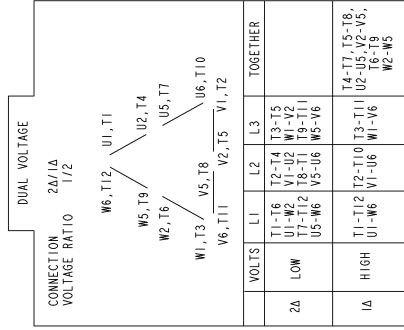
Open Circuit A-C:	0.575	Short Circuit D-C:	0.021
Short Circuit A-C:	0.024	X/R Ratio:	7.83
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG210



NAME:501452353 OBJECT:GEM2034E-FIG210 DATE:25-Feb-08 14:03:35

